

#916

BEFORE THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Title: ELECTRIC FIELD SENSOR

Confirm. No. 7724

Our File: CORDL-02.PCT/US

September 27, 2002

The Commissioner of Patents and Trademarks,
Washington, D.C. 20231.

Dear Sir:

Voluntary Amendment

In the Claims

Please amend claims 22 and 38 to read as follows:

22. (Amended) An electric potential sensor for detecting an electrical potential difference present over a source surface comprising:

- (1) a voltage divider network including at one end a pick-up electrode with a face surface having an insulating layer positioned adjacent to said face surface for placement next to a source surface whose electrical field is to be sensed through capacitive coupling
- (2) an electrical coupling at the other end of the voltage divider network for connection to another portion of the source surface over which an electrical potential difference exists; and
- (3) voltage sensing means for providing a voltage output, said voltage sensing means having an input capacitance that forms a portion of the voltage divider network, the voltage sensing means being connected for measuring the voltage appearing across that portion of the voltage divider network provided by